(BRUNING)

COPYFLEX

MODEL 200

CHARLES BRUNING COMPANY INC

CELICAGO

C 62111

MACHINE SERIAL # 200381

LAMP FAILURE REPORT CARD

To file claim for Defective Lamp Credit, this cord must be COMPLETELY filled out when failure occurs. Attach to the Defective Lamp and return within 60 days EXPRESS PREPAID, in an approved shipping container, to the nearest BRUNING Branch or Distributor.

DATE INSTALLED 7/5/60	DATE REMOVED	
COMPLETE DESCRIPTION OF THE FAILURE		
Signature	Date	

IMPORTANT

User is to retain this Lamp Failure Report Card until such time as the Guarantee Period expires.

model 200

MANUAL

SERIAL # 200381 GE #2310-port# 17099 (highthab +812)

This MANUAL is presented as an introduction to initial machine use. To avail yourself of the fullest possibilities, uses, and optional equipment, call the nearest Bruning Representative.

The CHARLES BRUNING COMPANY guarantees this equipment for SIX MONTHS after installation, and will replace, within this period, any parts found defective due to material or workmanship.

The LAMP is covered by a SEPARATE Guarantee, providing the Lamp Guarantee Card, which will be found attached to the Lamp, is properly filled in and mailed to the Factory immediately following installation. Lamp breokage is not covered.

The CHARLES BRUNING COMPANY reserves the right to modify specifications or design without incurring the obligation to change machines already sold.

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		OTTANA ONT.	27 NETCALFE ST.	MINNIPEG, MI	N
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model 200 INSTRUCTION MARKUAL

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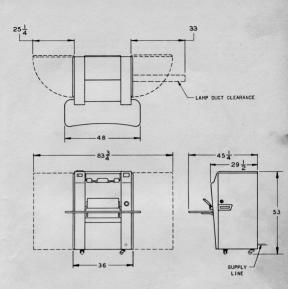
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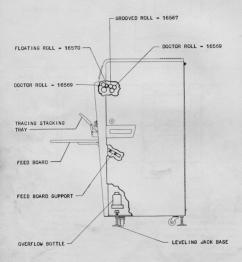
WEIGHT:
NET - 665 POUNDS
CRATED - ONE CRATE OF 760 POUNDS
CRATED FOR EXPORT ONE CRATE OF 800 POUNDS

CRATE SIZES:
DOMESTIC - ONE CRATE
DEPTH 34 INCHES
HEIGHT 57½ INCHES
WIOTH 41½ INCHES
EXPORT - ONE CRATE
DEPTH 35 INCHES
HEIGHT 61½ INCHES
WIOTH 39½ INCHES

POWER DEMAND 115 VOLTS 60 CYCLES SINGLE PHASE 24.2 AMPERES

B.T.U. DISSIPATION 10,000 PER HR. MAX.

EXHAUST AIR VOLUME 208 C.F. PER MIN. FIGURE 1 SHOWS THE ASSEMBLED POSITION OF THE EQUIPMENT FOUND DISASSEMBLED IN THE UNCRATING OF THE MACHINE, THE PARTS AS IDENT-IFIED BY THIS FIGURE SHOULD BE ASSEMBLED IN THEIR RESPECTIVE POSITIONS.



TO LEVEL THE MACHINE (TO PROVIDE UNIFORM DEVELOPER FLUID DEPTH)

- A PLACE THE LEVELING JACK BASES (P-#16432) UNDER THE FOUR JACK SCREWS.
- B RAISE THE PRINT RECEIVING TRAY, AND THE DEVELOPER ROLL ASSEMBLY TO THE "UP" POSITION AS SHOWN IN FIGURE 3.
- WITH THE DRAIN TUBE ASSEMBLY (SEE FIGURE 3) IN AN UPRIGHT, OR CLOSED POSITION, FILL THE TROUGH WITH WATER TO APPROXIMATELY 1/8" DEPTH.
- D Using the water in the troughs as a spirit Level, ADJUST THE FOUR JACK SCREWS UNTIL THE MACHINE IS LEVEL WHEN OFF ITS CASTERS.

TO CONNECT THE SUPPLY LINE (SEE PAGE 1)

THE SUPPLY LINE SHOULD BE NO.10 OR HEAVIER WIRE, THROUGH RIGID OR FLEXIBLE CONDUIT, TO SUPPLY 30 AMPERES AT 110 VOLTS. IT IS RECOMMENDED THAT THE SUPPLY LINE BE FREE OF ANY EQUIPMENT WHICH MIGHT CAUSE EXCESSIVE VOLTAGE FLUCTUATIONS.

TO INSTALL THE LAMP (SEE FIGURE 2)

AFTER THE MACHINE HAS BEEN SET UP, LEVELED, AND CONNECTED, INSTALL THE LAMP AS FOLLOWS:

- $\mbox{\ensuremath{\mbox{\ensuremath}\ensuremath{\ensuremath{\mbox{\ensuremath}\ens$
- B REMOVE LAMP COVERS FROM BOTH ENDS OF CYLINDER HOUSING.
- C LOOSEN THE KNURLED SCREWS LOCATED AT EACH END OF THE DUCT ASSEMBLY SLIDE.
 - D SLIDE THE DUCT OUT OF THE MACHINE USING CARE NOT TO ALLOW IT TO FALL AGAINST THE CYLINDER WHEN FULLY DISENGAGED.
- E UNPACK THE LAMP, USING CARE AS THIS IS A FRAGILE PART.

 ANY FOREIGN SUBSTANCE OR FINGER PRINTS WILL BAKE INTO
 THE SURFACE OF THE LAMP. IT IS A GOOD PRACTICE TO USE
 PAPER AROUND THE LAMP WHEN HANDLING IT.
- F FASTEN THE LAMP TO THE DUCT ASSEMBLY.
- G SLIDE LAMP-DUCT ASSEMBLY INTO CYLINDER.
- H TIGHTEN KNURLED SCREW CLAMPS.

TO INSTALL THE LAMP (CONTINUED)

- J REPLACE HOUSING COVERS. THESE COVERS SHOULD ALWAYS BE ON WHEN THE LAMP IS LIGHTED.
- K SNAP LAMP SWITCH TO "ON" POSITION.

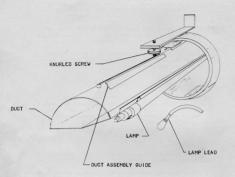
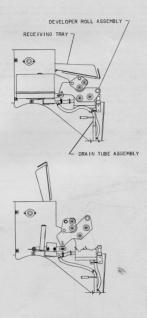


FIGURE 2

TO PUT DEVELOPER SOLUTION INTO MACHINE.

- A GRADUATE AND A STIRRING ROD ARE PROVIDED TO MIX THE DEVELOPER, FOLLOW THE DIRECTIONS PRINTED ON THE DEVELOPER POWDER PACKAGE.
- AFTER MIXING THE DEVELOPER AND FILLING THE PLASTIC SUPPLY BOTTLE, PROCEED AS FOLLOWS:
- A PLACE THE DRAIN JARS IN THEIR RESPECTIVE HOLDERS AT EACH SIDE OF THE MACHINE.
- B SEE FIGURE 3. RAISE BOTH THE PRINT TRAY DEVELOPER-YOKE ASSEMBLY AND THE DRAIN TUBE ASSEMBLY TO THE "UP" POSITION.
- C PLACE PLASTIC SUPPLY BOTTLE INTO POSITION. THE TROUGH FLUID LEVEL HAS BEEN ADJUSTED AT THE FACTORY TO PROVIDE A DEVELOPER DEPTH OF 1/5" IN EACH TROUGH WITH THE DEVELOPER ROLLS IN THE "UP" POSITION.



DELIVERY CONTROL (SEE FIGURE 4)

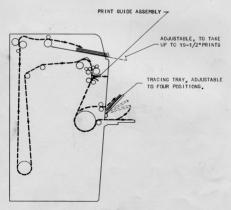
PERMITS THE CHOICE OF DELIVERY OF THE PRINT PRIOR TO ITS ENTRANCE INTO THE EUVELOPER SECTION AND ELIMINATES THE TRAVEL DIRCUIT THROUGH THE HEATER SECTION.

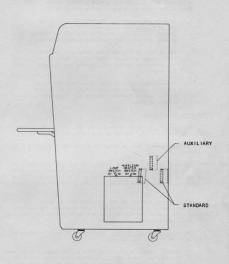
THIS IS PARTICULARLY SUITABLE FOR DELIVERY OF FILM PRINTS, WHICH SHOULD NOT BE ALLOWED TO GO THRU THE DRYER SECTION.

DRYNESS (SEE FIGURE 5)

ADJACENT TO THE LAMP SWITCH ON THE JUNCTION BOX IS A THREE-POSITION (LOW, MEDIUM, HIGH) HEATER SWITCH. THIS SWITCH CONTROLS THE FOUR HEATERS IN THE FOLLOWING MANNER:

- 1 THE LOW POSITION CONTROLS 600 WATTS OF HEAT WHICH IS TURNED ON WITH THE MASTER SWITCH, AND REMAINS ON ALL THE TIME THE MASTER SWITCH IS ON.
- MEDIUM CONTROLS AN ADDITIONAL 300 WATTS-HEATER ELEMENT, PROVIDING A TOTAL OF 900WATTS.
- 3 $\frac{\text{High}}{\text{TOTAL}}$ controls the Fourth 300 watt HEATER, PROVIDING A TOTAL OF 1,200 watts





VACUUM CONTROL (SEE FIGURE 6) IS A FACTORY SET ADJUSTMENT.

THIS SETTING IS ESTABLISHED FOR THE BEST OVER-ALL PEFFORMANCE OF STABLISHED FOR THE BEST OVER-ALL REQUIREMENTS GOODIN, ADJUSTMENT OF THE VACUUM MAY BE MADE BY LOOSENING THE ADDION NOT WHILE HOLD IN OTHER ADJUSTING ARM, ADJUST THE VACUUM CONTROL TO THE DESIRED POSITION AND AGENT OF THE ADOUNT NOT.

- If BOTH THE PRINT AND THE TRACING TEND TO GO UP, OR FOLLOW THE BANDS PAST THE POINT OF SEPARATION, AN ADJUSTMENT OF THE VACUUM CONTROL TOWARD THE "MINIMUM" POSITION SHOULD BE MADE.
 - THE SEPARATOR ASSEMBLY MAY ALSO NEED ADJUSTMENT (SEE FIGURE 6) UNDER THESE CONDITIONS, TO RAISE THE DIRECTION OF THE AIR HIGHER, AND TOWARDS THE BANDS.
- If PRINT AND TRACING FALL AWAY FROM THE BANDS, PRIOR TO REACHING THE SEPARATOR, AN ADJUSTMENT OF THE VACUUM CONTROL TOWARDS THE "MAXIMUM" SHOULD BE MADE.

OPERATING MAINTENANCE

THE CONTACT CYLINDER, UNDER NORMAL USE, SHOULD BE CLEANED ONCE A WEEK ON THE INTERIOR, AND TWICE A WEEK ON THE EXTERIOR.

ANY APPRECIABLE DROP IN PRINTING SPEED COULD INDICATE A DIRTY CYLINDER.

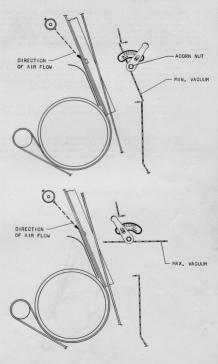
THE LAMP SWITCH SHOULD BE "OFF", AND THE CYLINGER COOL, TO CLEAN THE INTERIOR OF THE CYLINDER, REMOVE THE LAMP-DUDT ASSEMBLY, (SEE FIGURE 2). WITH THE MACHINE RUNNING AT A SLOW SPEED, CLEAN THE CYLINDER WITH A SOFT DAMP CLOTH, FOLLOWED BY DRYING WITH A SOFT DRY ONE.

THE EXTERIOR SURFACE OF THE CYLINDER MAY BE CLEANED, WITH THE MACHINE RUNNING AT A SLOW SPEED, BY FIRST REMOVING THE SCRAPER ASSEMBLY AND WIPING THE CYLINDER WITH A SOFT DAMP CLOTH, AND THEN A DRY ONE. SEE FIGURE 7.

THE DEVELOPER FLUID SYSTEM IS DESIGNED TO GIVE TROUBLE-FREE SERVICE IF MAINTAINED AS FOLLOWS:

- DAILY: REMOVE THE PLASTIC BOTTLE, AND DRAIN THE TROUGHS. REPLACE THE DRAIN HANDLE TO ITS CLOSED OR UP POSITION, FILL THE TROUGHS WITH WARM WATER, RUN THE MACHINE FOR A FEW MINUTES, AND DRAIN.
- WEEKLY: DRAIN THE DEVELOPER, RAISE TUBE HANDLE TO UP POSITION, AND SLOWLY POUR 24 OUNCES OF A STANDARD HOUSE-HOLD BLEACH (5% SOLUTION) DIRECTLY INTO DEVELOPER RESER-VOIR AND RUN THE MACHINE FOR ABOUT TEN MINUTES.

DRAIN THIS SOLUTION. AND FLUSH OUT WITH CLEAN WATER.



55-9

FIGURE 6

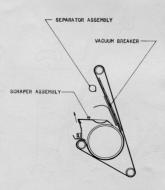
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THE <u>CEVELOPER POLLS</u> (GROOVED) INSTALLED IN THE MACHINE SHOULD BE MANDLED WITH CARE, ANY NICK OR DERT WILL IMPAIR THEIR OPERATION, ALSO, AVOID TOUCHING THE ROLLERS WITH THE BARE HANDS OR WITH ANY OILY MATERIAL, AS THIS INTERFERES WITH PICKING UP DEVELOPER SOLUTION, SHOULD THIS OCCUR, THE ROLLERS SHOULD BE POLISHED WITH A VERY FINE ABRASIVE PAPER, SUCH AS POLISHING PAPER, AND THEN CLEANED THOROUGHLY.

THE GROOVES OF THE INITIAL SET OF FACTORY INSTALLED ROLLERS MAY, THROUGH NORMAL USE, EVENTUALLY BECOME CLOGGED, RESULTING IN SPOTTY OR POOR DEVELOPMENT, OR A HEAVY DEPOSIT OF DEVELOPER FLUID AT THE TRAILING EGG OF THE PRINT, THEY SHOULD THEN BE REPLACED BY THE EXTRA SET OF ROLLERS FUNDISHED WITH THE MACHINET PROCESS THE EXTRA SET OF ROLLERS FUNDISHED WITH THE TRAILING.

THE REMOVED ROLLERS SHOULD BE CAREFULLY PACKED IN THE CONTAINER PROVIDED, AND SENT TO THE MEAREST BRUNING OFFICE. THEY WILL BE CLEANED AND RETURNED PROMPTLY.

THE SEPARATOR ADJUSTMENT IS A FACTORY SET ADJUSTMENT, NORMALLY THIS AIR JET IS DIRECTED AT THE VACUUM BREAKER BEHIND THE CONVEYOR BANDS, NO ADJUSTMENT SHOULD BE MADE OF THIS UNIT UNTIL IT HAS BEEN DETERMINED THAT ALL OTHER RELATED FUNCTIONS ARE OPERATING PROPERLY. SEE FIGURE 7.



model 200

SERIAL NO.

BRUNING

COPYFLEX MACHINE

PARTS MANUAL

IN ORDERING PARTS, OR REQUESTING INFORMATION RELATIVE TO THIS MACHINE, ALWAYS GIVE THE SERIAL NUMBER WHICH IS STAMPED ON THE PLATE LOCATED ON THE ELECTRICAL PULL BOX DOOR.

CHARLES BRUNING COMPANY INC

MONTREAL

CHICAGO, ILL. NEW YORK, N.Y. HOUSTON, TEXAS. MILWAUKEE. WIS. DALLAS, TEXAS. CANADA TORONTO

TETERBORO, N.J. BOSTON, MASS. CLEVELAND, OHIO

LOS ANGELES, CALIF. PITTSBURGH, PA. SEATTLE, WASH.

KANSAS CITY, MO. DETROIT, MICH. PHILADELPHIA, PA. ST. LOUIS, MO. SAN FRANCISCO, CALIF. PORTLAND, ORE. CINCINNATI, OHIO DENVER, COLO.

VANCOUVER

model 200

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COPYFLEX MACHINE

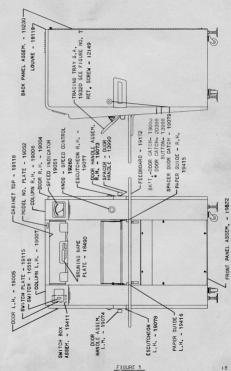
PARTS MANUAL

CHARLES BRUNING COMPANY INC

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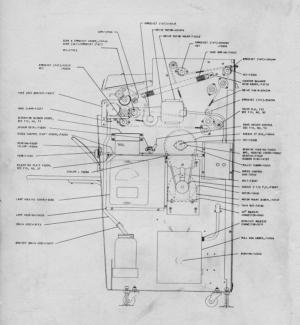
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MODEL 200 CABINET PARTS SERIAL NO. 200181 & UP



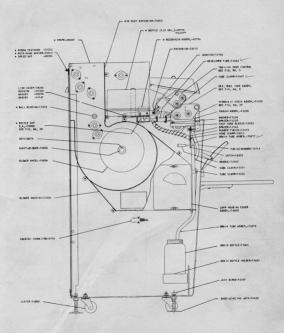
MODEL 200

RIGHT END VIEW WITH CABINET REMOVED SERIAL NO. 200331 & UP



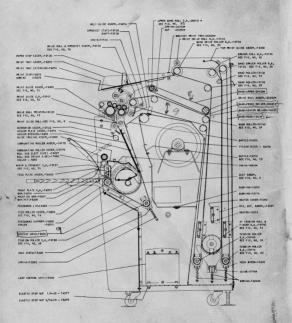
MODEL 200

LEFT END VIEW WITH CABINET REMOVED SERIAL NO. 200331 & UP



CROSS SECTION THRU CENTER OF MACHINE

SERIAL NO. 200331 & UP



MODEL 200 CYLINDER GUIDE ROLL - 19441 -SEE FIG. NO. 31 TWIN NUT - 183657 DUCT GUIDE - 16370 -DUCT BACK - 19284 REFLECTOR - 19285 DUCT FRONT ASSEM. 9286 KNURLED THUMBSCREW7 SECTION THRU CENTER OF CYLINDER SERIAL NO. 2001 & UP 16353 F DUCT GUIDE BRACKET - 19293 -DUCT MOUNTING BRACKET - 19294

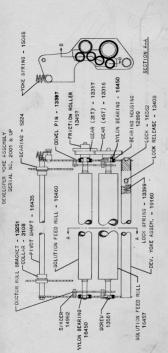
RUBBER BUMPER - 16359 -GUIDE ROLL BRACKET BRACKET - 16751 -

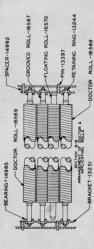
LAMP SPRING - 18347

GLASS CYLINDER

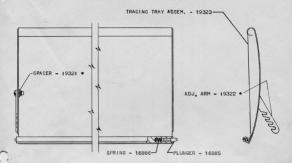
CYLINDER GUIDE ROLLER SEE FIGURE 32

56-3



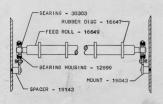


TRACING TRAY S.A. - 19320 SERIAL NO. 200150 & UP

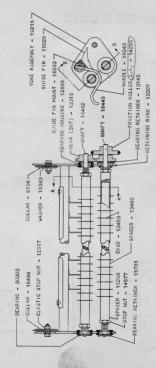


PRINT GUIDE ROLL SERIAL NO. 2001 & UP

FIGURE 8







SECTION D-8

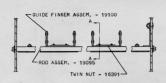
SECTION A-A

CA

FIGURE

55-8

PRINT GUIDE S.A. - 19101 SERIAL NO. 2001 & UP FIGURE 10





SECTION A-A

SEPARATOR BLOWER ASSEMBLY - 19243 SERIAL NO. 200150 & UP

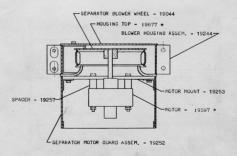


FIGURE 12

PRINT GUIDE ASSEMBLY 19305 SERIAL NO. 2001 & UP

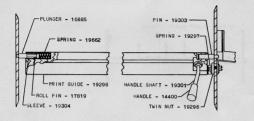
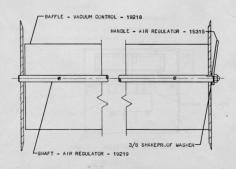


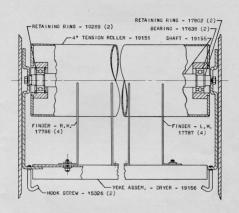
FIGURE 13

BAND VACUUM CONTROL SERIAL NO. 2001 & UP



4" TENSION ROLLER & FINGER S.A. - 19150 SERIAL NO. 2001 & UP

FIGURE 14



GEAR & SPROCKET S.A.-19137 SERIAL NO. 200271 & UP

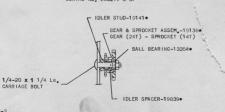


FIGURE 16

DRIVE ROLLER & SPROCKET - 19190 SERIAL NO. 2001 & UP

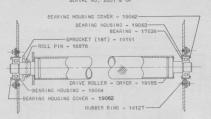


FIGURE 17

PRINTER DRIVE ROLLER - 19128 SERIAL NO. 2001 & UP

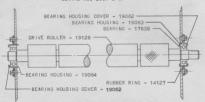
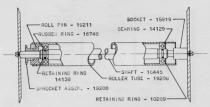


FIGURE 18

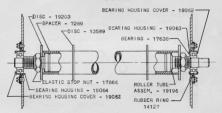
BAND ROLLER - DRYER - 19132 SERIAL NO. 2001 & UP



FEED ROLLER ASSEM. - 19205 SERIAL NO. 2001 & UP FIGURE 19



BAND SPACER ROLLER S.A. - 19195 SERIAL NO. 2001 & UP FIGURE 20



BAND ROLLER - 19192 SERIAL NO. 2001 & UP



FIGURE 22

SPACER ROLLER S.A. - 19166 SERIAL NO. 2001 & UP

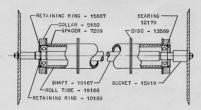


FIGURE 23

TENSION ROLLER S.A. - 19170 SERIAL NO. 2001 & UP

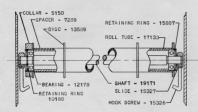
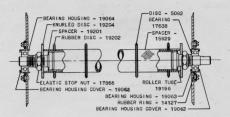


FIGURE 24

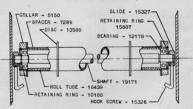
DRIVE SHAFT - 19130 SERIAL NO. 2001 & UP



BAND DRIVE ROLLER S.A. - 19194 SERIAL NO. 2001 & UP FIGURE 25



TENSION ROLLER S.A. - 19169 SERIAL NO. 2001 & UP FIGURE 26



CORRUGATING ROLL HOLDER SERIAL NO. 2001 & UP

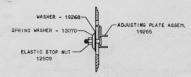


FIGURE 28

BOTTLE CAP S.A.-19890

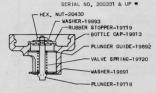


FIGURE 29

HYDRAULIC CHECK ASSEM. - 16550 SERIAL NO. 2001 & UP

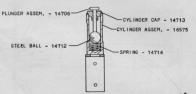
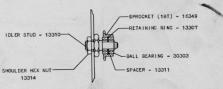


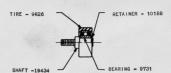
FIGURE 30

IDLER S.A. - 16347 SERIAL NO. 2001 & UP

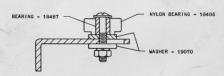


CYLINDER GUIDE ROLLER - 19441 SERIAL NO. 2001 & UP

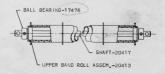
FIGURE 31

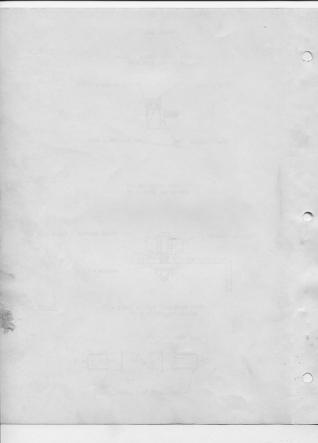


CYLINDER GUIDE ROLLER SERIAL NO. 2001 & UP FIGURE 32

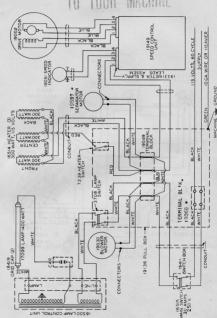


UPPER BAND ROLL S.A. - 20412 * SERIAL NO.200331 & UP





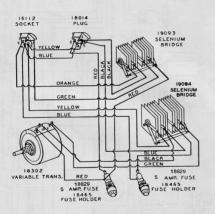
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MODEL 200 WIRING DIAGRAM SERIAL NO. 200150 & UP

MODEL 200

SPEED CONTROL UNIT WIRING DIAGRAM SERIAL NC. 2001 & UP



19250

serial number 200332 & UP

